	**************************************	•	LLIGENCE AGENCY	REPORT	
		INFORMAT	ION REPORT	CD NO.	50X1-HUI
OUNTRY	ussp			DATE DISTR. 8 Fo	bruary 1951
UZJECT	Supposed	Soviet Formula for S	Secret Ink	NO. OF PAGES 2	50X1-HUN
LACE CQUIRED		<u> </u>		NO. OF ENC	
ATE OF NFO.				SUPPLEMEN REPORT NO	
THIS DOCUMENT OF THE UNITED U.S.C., SI MID OF ITS CONTENT HIBIT D BY LAW	COUTAINS INFOCEATION STATES STITES YET US DE AC ACRESSED. ITS S IN ACY EAUNER TO LESPEODUCTION OF	ON AFFECTING THE HATIONAL DEFENSE BEARING OF THE ESPICIAGE ACT SO STANDENISSION OF THE ESPECIATION ALL GRAVITACETED PROCEDURES THIS FORE! DECOMING THE	THIS IS UNEV	ALUATED INFORMATIO	N 50X1-HU

It has been reported that the Soviet Intelligence Service utilized the following formula for a covert ink in their transmission of classified information on newspapers and/or letters:

Three times substitute Pyrole, this reacts exclusively on an equally rare substance; mainly, Triphemylaminobonzaldehyde. Then thus treated by the latter substance, the Pyrole becomes legible in a reddish color.

2. In order to clarify the above, the following technical description was obtained:

PYROLE CLH_N

Pyrole is a heterocyclic combination containing 5 atoms. There are several substances to be found in nature which contain the pyrole nucleus, among them haematin (the red coloring matter of the blood), chlorophyll and several alkaloids, especially nicotine.

Pyrole can be found in Dippels oil, especially when it is obtained from degreased bones. (Dippels oil is obtained through rectification of raw animal oil, which is produced by dry distillation of bones that have not been degreased.)

The fraction of Dippels oil which boils between 120° - 131°C is used to produce pyrole. Through treatment with diluted sulfuric acid this fraction is released from pyridine bases, through boiling with a soda solution from nitriles; then it is dried and combined with kalium metal. Thus pyrolekalium is formed Chilink, which can be cleansed through washing with ether and which returns to pyrole through the addition of water.

CLAS	SSIFICATIO	N	SEC DT	
	NSRB		DISTRIBUTION	

	STATE	 NAVY	NSRB	DIS	TRI	BUTION				
1	ARMY	AIR	FBI		x					

Pyrole can also be obtained synthetically through treatment of the "Rutandial" with ammonia. 50X1-H	in wate: pine wee	r and boi	ls at 131 ⁰ C ned with hy	d of specific . Its vapor drochloric ac ristic of pyr	produces id, due to	a cherry-red the format:	colorati	on on
			be obtained	syntheticall	y through	treatment of	the "Ru	standial" 50X1-H

Declassified in Part - Sanitized Copy Approved for Release 2012/05/18 : CIA-RDP83-00415R007400110005-2

CENTRAL INTELLIGENCE AGENCY

-2-

SECRET